Sumo 1 (ANT0013R) Rabbit mAb

CatalogNo: ANT8339 Recombinant

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species	Reactivity	Applications
• Rabbit • Human,Mouse,Rat,	• WB,IHC,IF,IP,ELISA	

MW	Isotype
• 12kD (Calculated) 80kD (Observed)	• IgG,Kappa

Recommended Dilution Ratios

IHC 1:2000-1:10000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
Clone Number	ANT0013R

Target Information

Immunogen Information Specificity

Endogenous

Gene name SUMO1

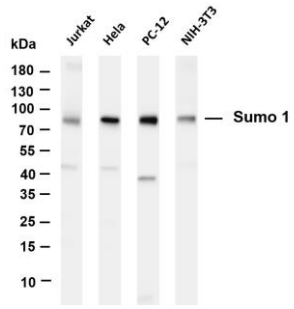
Protein Name Small ubiquitin-related modifier 1

Organism	Gene ID	UniProt ID
Human	7341;	P63165;
Mouse	22218;	P63166;
Rat	301442;	Q5I0H3;

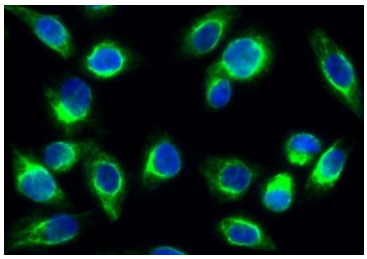
Cellular Localization Cytoplasm, Nucleus

Tissue specificity Brain,Colon adenocarcinoma,Epithelium,Placenta,

Function Caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,Function:Ubiquitin-like protein which can be covalently attached to target lysines as a monomer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Involved in targeting RANGAP1 to the nuclear pore complex protein RANBP2. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4.,online information:SUMO protein entry,ANTM:Cleavage of precursor form by SENP1 or SENP2 is necessary for function.,similarity:Belongs to the ubiquitin family. SUMO subfamily.,similarity:Contains 1 ubiquitin-like domain.,subunit:Interacts with SAE2, UBE2I, RANBP2, PIAS1 and PIAS2. Interacts with PARK2. Covalently attached to a number of proteins such as PML, RANGAP1, HIPK2, SP100, p53, p73-alpha, MDM2, JUN, DNMT3B and TDG. Also interacts with HIF1A, HIPK2, HIPK3, CHD3, EXOSC9, RAD51 and RAD52.,



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Sumo 1 (ANT0013R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: Hela Lane 3: PC-12 Lane 4: NIH-3T3
Predicted band size: 12kDa Observed band size: 80kDa



Immunofluorescence analysis of Hela cell. 1,SUMO-1 Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.